

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (currently amended): A glassy-film-forming coating agent comprising compounds represented by the following general formulae (1), (2) and (3):



wherein

$R^1$  is a polymerizable organic group having an unsaturated double bond or a ring-opening cyclic group,

$R^2$  is an alkyl group having not more than 4 carbon atoms,

$R^3$  is an alkyl group having not more than 6 carbon atoms,

$p$  is an integer of 1 to 3,

$q$  is an integer of 1 to 10,

$M$  is a trivalent or tetravalent metal ion, and

$r$  is an integer of 3 or 4 corresponding to the valence of  $M$ ,

provided that, when one of the compounds contains two or more  $R^1$ 's,  $R^2$ 's or  $R^3$ 's, they may be the same or different [[,]]

Claim 2 (original): The coating agent according to claim 1, comprising the compounds in the following proportions:

compound (1): 40 to 80 mol%,

compound (2): 10 to 30 mol%, and

compound (3): 10 to 50 mol%.

Claim 3 (previously presented): The coating agent according to claim 1, further comprising a polymerization initiator.

Claim 4. (Canceled)

Claim 5. (Canceled)

Claim 6. (currently amended) The coating agent according to claim 1, wherein ~~R1~~ R<sup>1</sup> is a vinyl or  $\gamma$ -methacryloxypropyl group, ~~R2~~ R<sup>2</sup> is methyl or ethyl group,

~~R3~~ R<sup>3</sup> is ethyl, methyl, isopropyl or butyl group, and M is Ti, Zr or Al.

Claim 7 (withdrawn): A glassy-film-coating method comprising:  
applying, to a substrate, a coating agent which comprises compounds represented by the following general formulae (1), (2) and (3):



wherein

R<sup>1</sup> is a polymerizable organic group,

R<sup>2</sup> is an alkyl group having not more than 4 carbon atoms,

R<sup>3</sup> is an alkyl group having not more than 6 carbon atoms,

p is an integer of 1 to 3,

q is an integer of 1 to 10,

M is a trivalent or tetravalent metal ion, and

r is an integer of 3 or 4 corresponding to the valence of

M,

provided that, when one of the compounds contains two or more R<sup>1</sup>s, R<sup>2</sup>s or R<sup>3</sup>s, they may be the same or different, and subjecting the coating agent applied to the substrate to irradiation and/or heat treatment.

Claim 8 (withdrawn): The method according to claim 7, wherein the substrate is made of glass.

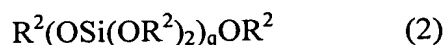
Claim 9 (withdrawn): The method according to claim 7, wherein the substrate is made from a plastic.

Claim 10 (withdrawn): The method according to any of claims 7 to 9, wherein the heating temperature is from 60 to 300°C.

Claim 11 (withdrawn): The method according to any of claims 7 to 10, further comprising, between the step of applying the coating agent to the substrate and the step of subjecting the coating agent applied to the substrate to irradiation and/or heat treatment, the step of removing a solvent contained in the coating layer in order to cause phase separation inside the coating layer, thereby making the appearance of the coating layer frosty.

Claim 12 (withdrawn): The method according to claim 11, wherein, after applying the coating agent to the substrate, the solvent is removed by blowing air on the coating layer formed.

Claim 13 (withdrawn): A coated bottle produced by applying, to a bottle, substrate, a coating agent comprising compounds represented by the following general formulae (1), (2) and (3):



wherein

$R^1$  is a polymerizable organic group,

$R^2$  is an alkyl group having not more than 4 carbon atoms,

$R^3$  is an alkyl group having not more than 6 carbon atoms,

$p$  is an integer of 1 to 3,

$q$  is an integer of 1 to 10,

$M$  is a trivalent or tetravalent metal ion, and

$r$  is an integer of 3 or 4 corresponding to the valence of  $M$ ,

provided that, when one of the compounds contains two or more  $R^1$ s,  $R^2$ s or  $R^3$ s, they may be the same or different, and subjecting the coating agent applied to the bottle to irradiation and/or heat treatment.

Claim 14 (withdrawn): The coated bottle according to claim 13, wherein the substrate is a glass bottle.

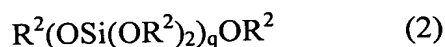
Claim 15 (withdrawn): The coated bottle according to claim 13, wherein the substrate is a plastic bottle.

Claim 16 (withdrawn): The coated bottle according to any of claims 13 to 15, wherein, between the application of the coating agent to the substrate and the irradiation and/or heat treatment, a solvent contained in the coating layer is removed in order to cause phase separation inside the coating layer, thereby making the appearance of the coating layer frosty.

Claim 17 (withdrawn): The coated bottle according to claim 16, wherein, after applying the coating agent to the substrate, the solvent is removed by blowing air on the coating layer formed.

Claim 18 (withdrawn): A glassy-film-coating system comprising the following units:

(a) a coater for applying, to a substrate, a glassy-film-forming coating agent which comprises compounds represented by the following general formulae (1), (2) and (3):



wherein

$R^1$  is a polymerizable organic group,

$R^2$  is an alkyl group having not more than 4 carbon atoms,

$R^3$  is an alkyl group having not more than 6 carbon atoms,

p is an integer of 1 to 3,

q is an integer of 1 to 10,

M is a trivalent or tetravalent metal ion, and

r is an integer of 3 or 4 corresponding to the valence of M,

provided that, when one of the compounds contains two or more R<sup>1</sup>s, R<sup>2</sup>s or R<sup>3</sup>s, they may be the same or different, and (b) a coating-hardening unit for irradiating and/or heating the coating agent applied to the substrate.

Claim 19 (withdrawn): The glassy-film-coating system according to claim 18, wherein the coating agent is applied to the substrate by the coater by means of dip coating.

Claim 20 (withdrawn): The glassy-film-coating system according to claim 18 or 19, wherein the coating-hardening unit is composed of an irradiator and a heater.

Claim 21 (withdrawn): The glassy-film-coating system according to any of claims 18 to 20, wherein the system comprises a conveyer, and the substrate attached to this conveyer is successively subjected to the following steps of:

- (i) applying the coating agent to the substrate by the coater by means of dip coating;
- (ii) irradiating the coating agent applied to the substrate with ultraviolet light by using the irradiator; and
- (ii) heating the irradiated coating agent to 60 to 300°C by the heater.

Claim 22 (Canceled).

Claim 23 (previously presented): The coating agent according to claim 1, wherein compound (I) is at least one member selected from the group consisting of vinyl trimethoxysilane, vinyl triethoxysilane, and  $\gamma$ -methacryloxypropyl trimethoxysilane.

Application No. 09/423,606

Reply to Office Action of November 14, 2003.

Claim 24 (currently amended): The coating agent according to any of claims 1 to ~~3~~  
2, further comprising an organic pigment, a dispersant and a solvent.